

WE CLAIM AS OUR INVENTION:

1. An arrangement for passive gas sampling of a breathing gas, comprising:

a tube adapted to receive a flow of breathing gas in an interior of the tube;

a measurement chamber in fluid communication with the interior of the tube;

and

an element disposed in said interior of said tube for passively diverting a portion of said flow of breathing gas to said measurement chamber.

2. An arrangement as claimed in claim 1 wherein said element comprises a generally triangular element portion having a tip and a base, said tip being disposed closer to said measurement chamber than said base, said generally triangular element portion having a curved central axis proceeding between said base and said tip and having a cross-section orthogonal to said central axis that is flat at said base and is curved with a decreasing radius of curvature proceeding along said central axis between said base and said tip.

3. An arrangement as claimed in claim 2 wherein said element comprises a generally rectangular element portion disposed adjacent to said base of said generally triangular element portion.

4. An arrangement as claimed in claim 1 wherein said element has a T-shape with a stem and crosspiece, said stem being oriented toward said measurement chamber.

5. An arrangement for passive gas sampling of a breathing gas in a breathing system, comprising:

a housing;

a measurement chamber disposed in said housing;

said housing having a first connection adapted to receive an inspiration flow, a second connection adapted to discharge an expiration flow, and a third connection adapted to discharge the inspiration flow and to receive the expiration flow; and

said housing having a flow path therein configured so that said first connection and said third connection conduct the inspiration flow and the expiration flow along a substantially straight path toward said measurement chamber.